## **AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **LISTING OF CLAIMS:**

1. (Currently Amended) An inline phase shifter comprising:

a waveguide having at least one electrically conducting surface and a waveguide path; and

at least one electromechanical means for changing a physical dimension of the waveguide path to phase shift a signal which travels along the waveguide path, wherein the at least one electromechanical means comprises at least one of a piezoelectric element with a moveable shutter and or an electrostatically actuated shutter.

- 2. (Previously Presented) The inline phase shifter according to claim 1, wherein the at least one electromechanical means is a set of first and second electromechanical devices arranged at a point along the waveguide path and other sets of at least one electromechanical means are positioned at other points along the waveguide path.
- 3. (Previously Presented) The inline phase shifter according to claim 1, comprising:
  - a first surface of the waveguide parallel to a second surface of the waveguide,

wherein the at least one electromechanical means includes a first electromechanical means positioned adjacent to the first surface, and

a second electromechanical means positioned adjacent to the second surface.

- 4. (Original) The inline phase shifter according to claim 3, wherein the first electro-mechanical means has a first shutter that can move toward the second surface and the second electro-mechanical means has a second shutter that can move toward the first surface.
- 5. (Previously Presented) The inline phase shifter according to claim 4, wherein there is an opening normal to the waveguide path between the first and second electromechanical means.
- 6. (Previously Presented) The inline phase shifter according to claim 5, wherein the first and second electromechanical means are positioned within the waveguide.
- 7. (Original) A radar system having an inline phase shifter according to claim 1, wherein the inline phase shifter is connected to a radar transceiver for phase shifting one of transmitted and received signals.
  - 8. (Currently Amended) A method for phase shifting a signal comprising:

changing physical dimensions of a waveguide path by actuating an electromechanical device; and

inputting a signal along the waveguide path to output a phase shifted signal, wherein the electromechanical device comprises at least one of a piezoelectric element with a moveable shutter and or an electrostatically actuated shutter.

9. (Original) The method for phase shifting a signal according to claim 8, comprising:

sending an actuation signal to the electromechanical device positioned adjacent to a waveguide containing the waveguide path.

10. (Currently Presented) An inline phase shifter comprising:

a waveguide having conducting surfaces along a waveguide path of the waveguide; and

a plurality of electromechanical devices positioned serially along the waveguide path sufficiently adjacent to the waveguide path to change a physical dimension of the waveguide path upon actuation of at least one of the plurality of electromechanical devices, wherein each of the plurality of electromechanical devices comprises at least one of a piezoelectric element and or an electrostatically actuated shutter.

11. (Previously Presented) An inline phase shifter, comprising: a waveguide having a waveguide path; and

a plurality of electromechanical devices positioned serially along the waveguide path sufficiently adjacent to the waveguide path to change a physical dimension of the waveguide path upon actuation of at least one of the plurality of electromechanical devices, wherein the plurality of electro-mechanical devices is positioned entirely within the waveguide.

12. (Currently Amended) An inline phase shifter comprising: a waveguide having a waveguide path; and

at least one micro-electromechanical device positioned sufficiently adjacent to the waveguide path to change a physical dimension of the waveguide path upon actuation of the at least one micro-electromechanical device, wherein the at least one micro-electromechanical device comprises at least one of a piezoelectric element with a moveable shutter and or an electrostatically actuated shutter.

- 13. (Previously Presented) The inline phase shifter according to claim 12, wherein said waveguide comprises a first surface and a second surface parallel to the waveguide path and includes a first one of said at least one microelectromechanical device positioned adjacent to the first surface and a second one of said at least one micro-electromechanical device positioned adjacent to the second surface.
- 14. (Previously Presented) The inline phase shifter according to claim 13, wherein the first and second micro-electromechanical devices are a set of devices

arranged at a point along the waveguide path, and other sets of devices are positioned at other points along the waveguide path.

- 15. (Previously Presented) The inline phase shifter according to claim 13, wherein the first micro-electromechanical device has a first shutter that can unroll toward the second surface and the second micro-electromechanical device has a second shutter that can unroll toward the first surface.
- (Original) The inline phase shifter according to claim 15, wherein there 16. is an opening normal to the waveguide path between the first and second shutters.
- (Previously Presented) The inline phase shifter according to claim 13, 17. wherein the first and second micro-electromechanical devices are positioned within the waveguide.
- (Previously Presented) The inline phase shifter according to claim 12, 18. wherein said waveguide comprises:
  - a first surface and a second surface parallel to the waveguide path;
- a first array of said at least one micro-electromechanical devices positioned adjacent to the first surface; and
- a second array of said at least one micro-electromechanical devices positioned adjacent to the second surface, wherein devices of the first array have a shutter that can move toward the second surface, and devices of the second array have a shutter that can move toward the first surface.

- 19. (Previously Presented) The inline phase shifter according to claim 18, wherein there is an opening normal to the waveguide path between the first and second arrays of micro-electromechanical devices.
- 20. (Previously Presented) The inline phase shifter according to claim 19, wherein the first and second arrays are a set of said at least one micro-electromechanical devices arranged at a point along the waveguide path and other sets of said at least one micro-electromechanical devices are respectively positioned at other points along the waveguide path.
  - 21. (Canceled)
- 22. (Previously Presented) The inline phase shifter of claim 1, wherein said changing a physical dimension of the waveguide path comprises changing a dimension of an electrically conducting wall within the waveguide.
- 23. (Previously Presented) The inline phase shifter according to claim 1, wherein said at least one electromechanical means is positioned entirely within the waveguide.
  - 24. (Canceled)

- 25. (Previously Presented) The inline phase shifter according to claim 1, wherein said at least one electromechanical means comprises a respective microelectromechanical device.
  - 26. (Canceled)
- 27. (Previously Presented) The inline phase shifter according to claim 10, wherein said change in a physical dimension of the waveguide path comprises a change in at least one of the plurality of electromechanical devices.
- 28. (Previously Presented) The inline phase shifter according to claim 10, wherein each of said plurality of electromechanical devices is positioned entirely within the waveguide.
  - 29. (Canceled)
- 30. (Previously Presented) The inline phase shifter according to claim 10, wherein each of said plurality of electromechanical devices comprises a respective micro-electromechanical device.
  - 31. (Canceled)

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- 32. (Previously Presented) The inline phase shifter according to claim 12, wherein said change in a physical dimension of the waveguide path involves a change in the at least one micro-electromechanical device.
- 33. (Previously Presented) The inline phase shifter according to claim 12, wherein said at least one micro-electromechanical device is positioned entirely within the waveguide.
  - 34. (Canceled)